



LAW OFFICES OF
JIM ZEGER

SUITE 108
801 NORTH PITT STREET
ALEXANDRIA, VIRGINIA 22314

TELEPHONE (703) 684-8333

FACSIMILE (703) 549-8411

Atty. Docket No.: 3399-Z

UTILITY PATENT APPLICATION TRANSMITTAL
(Only for new nonprovisional applications under 37 C.F.R. §1.53(b))

Box PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of:

INVENTOR(S): Richard J. Feldmann of Derwood, Maryland

TITLE: **SYMMETRY RELATIONSHIPS BETWEEN PAIRS OF CONNECTRONS**

1. ☒ Specification of 46 pages.
☒ Claims, 16 in number.
☒ Abstract of the Disclosure.
2. ☒ Drawings. Total Sheets: 14
3. ☐ Oath or Declaration.
 - a. ☐ Newly executed (original or copy)
 - b. ☐ Copy from prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 5 completed)
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the
prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
4. ☒ CD-ROM Sequence Listing Part, one disc (in duplicate):
Total: 2 discs.
Including transmittal letter containing file information.
5. ☒ "SUBMISSION OF "SEQUENCE LISTING," COMPUTER READABLE COPY...FOR
BIOTECHNOLOGY INVENTION CONTAINING NUCLEOTIDE AND/OR AMINO
ACID SEQUENCE" (including statements signed by inventor).
- 6a. ☒ If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite
information below and in a preliminary amendment, or in an Application Data Sheet under
37 CFR 1.76:
☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP):
of prior application Serial No.: 09/866,925, filed May 30, 2001.
Prior application information: Group Art Unit: 1645 Examiner: John S. Brusca
**For: CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior
application, from which an oath or declaration is supplied under Box 3b, is considered
a part of the disclosure of the accompanying continuation or divisional application and
is hereby incorporated by reference. The incorporation can only be relied upon when a
portion has been inadvertently omitted from the submitted application part.**
- 6b. ☒ The present application is a nonprovisional application based on Provisional Application
Serial No. 60/455,563 filed March 19, 2003.
7. ☒ Applicant claims small entity status. (see 37 CFR 1.27)

8. ☐ An assignment of the invention to: _____
 9. ☐ A certified copy of _____ application No. _____ filed _____, the priority of which is hereby claimed.
 10. ☐ Preliminary Amendment
 11. ☐ Information Disclosure Statement (IDS) PTO-1449
 ☐ Copies of IDS Citations.
 12. ☒ Return Receipt Postcard (MPEP 503)
 13. ☐ Other:
 14. ☒ The filing fee has been calculated as shown below:

For	No. Filed	Basic	No. Extra	Rate \$	Calculations
Total Claims	16	20	0	\$ 18.00	\$.00
Indep. Claims	16	3	13	\$ 86.00	\$1,118.00
<input type="checkbox"/> Multiple Dependent Claims				\$290.00	\$.00
BASIC FEE					\$ 770.00
TOTAL OF ABOVE CALCULATIONS					\$1,888.00
<input checked="" type="checkbox"/> Reduction by 1/2 For Filing By Small Entity					\$ 944.00
TOTAL FILING FEE					\$ 944.00

15. ☒ It is requested that the attached application be given a serial number and filing date and that correspondence concerning this application be forwarded to applicant's undersigned counsel.
16. ☒ Correspondence Address:
 Law Office of Jim Zegeer
 Suite 108
 801 North Pitt Street
 Alexandria, VA 22314
- Telephone: 703-684-8333
 Fax: 703-549-8411

Respectfully submitted,

Jim Zegeer
 Jim Zegeer, Reg. No. 18,957
 Attorney for Applicant

Date: March 18, 2004



LAW OFFICES OF

JIM ZEGER

SUITE 108
801 NORTH PITT STREET
ALEXANDRIA, VIRGINIA 22314

TELEPHONE (703) 684-8333
FACSIMILE (703) 549-8411

Atty. Docket No.: 3399-Z

Box PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231

Re: New U.S. Patent Application Filed Concurrently Herewith
INVENTOR: Richard J. Feldmann of Derwood, Maryland
TITLE: SYMMETRY RELATIONSHIPS BETWEEN PAIRS OF CONNECTRONS

Sir:

With regard to The Sequence Listing Part disc which is
submitted herewith in duplicate, the following information is
submitted:

The disc was created on March 17, 2004.

Machine format: Macintosh

Operating system compatibility: MS-Windows, Macintosh.

File: 3399-Z has 47,000 bytes.

Respectfully submitted,

Jim Zegeer, Reg. No. 18,957
Attorney for Applicant

Date: March 18, 2004



The Patent and Trademark Office acknowledges, and has stamped hereon, the date of receipt of the following document(s) filed:



- [X] UTILITY PATENT APPLICATION TRANSMITTAL
under 37 C.F.R. §1.53(b))
INVENTOR(S): Richard J. Feldmann of Derwood, Maryland
TITLE:
SYMMETRY RELATIONSHIPS BETWEEN PAIRS OF CONNECTRONS
- [X] Specification of 46 pages.
[X] Claims, 16 in number.
[X] Abstract of the Disclosure.
[X] Drawings. Total Sheets: 14
[X] CD-ROM Sequence Listing Part, one disc (in duplicate):
Total: 2 discs.
Including transmittal letter containing file information.
- [X] "SUBMISSION OF "SEQUENCE LISTING," COMPUTER READABLE
COPY...FOR BIOTECHNOLOGY INVENTION CONTAINING
NUCLEOTIDE AND/OR AMINO ACID SEQUENCE"
(including statements signed by inventor).
- [X] Return Receipt Postcard (MPEP 503)

Atty. Docket No.: 3399-Z



Practitioner's Docket No. 3399-Z

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

New U.S. Patent Application Filed Concurrently Herewith
INVENTOR: Richard J. Feldmann of Derwood, Maryland
TITLE: THE SYMMETRY RELATIONSHIPS BETWEEN
PAIRS OF CONNECTRONS

Box Sequence
Assistant Commissioner for Patents
Washington, D.C. 20231

SUBMISSION OF "SEQUENCE LISTING," COMPUTER READABLE COPY,
AND/OR AMENDMENT PERTAINING THERETO
FOR BIOTECHNOLOGY INVENTION CONTAINING NUCLEOTIDE
AND/OR AMINO ACID SEQUENCE

(check and complete this item, if applicable)

1. ☐ This replies to the Office Letter dated _____.

NOTE: If these papers are filed before the office letter issues, adequate identification of the original papers should be made, e.g., in addition to the name of the inventor and title of invention, the filing date based on the "Express Mail" procedure, the application number from the return post card or the attorney's docket number added.

- ☐ A copy of the Office Letter is enclosed.

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*
(When using Express Mail, the Express Mail label number is mandatory;
Express Mail certification is optional.)

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

- ☐ deposited with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231
37 C.F.R. § 1.8(a)
☐ with sufficient postage as first class mail.
- 37 C.F.R. § 1.10*
☐ as "Express Mail Post Office to Addressee"
Mailing Label No. _____ (mandatory)

TRANSMISSION

- ☐ transmitted by facsimile to the Patent and Trademark Office.

Signature _____

Date: _____

(type or print name of person certifying) _____

*WARNING: Each paper or fee filed by Express Mail must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).
"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.
(Submission—Nucleotide and/or Amino Acid Sequence [9-37]—page 1 of 6)

IDENTIFICATION OF PERSON MAKING STATEMENT

2. I, Richard J. Feldmann
(type or print name of declarant signing below)

state the following:

ITEMS BEING SUBMITTED

3. Submitted herewith is/are:

(check each item as applicable)

- A. ☒ "Sequence Listing(s)" for the nucleotide and/or amino acid sequence(s) in this application. Each "Sequence Listing" is assigned a separate identifier as required in 37 C.F.R. § 1.821(c) and 37 C.F.R. §§ 1.822 and 1.823.
- B. ☐ An amendment to the description and/or claims, wherein reference is made to the sequence by use of the assigned identifier, as required in 37 C.F.R. § 1.821(d).
- C. ☒ A copy of each "Sequence Listing" submitted for this application in computer readable form, in accordance with the requirements of 37 C.F.R. §§ 1.821(e) and 1.824.
- D. ☐ Please transfer to this application, in accordance with 37 C.F.R. § 1.821(e), the computer readable copy(ies) from applicant's other application identified as follows:

In re application of:

Application No.: 0 /

Filed:

For:

Group No.:

Examiner:

The Computer readable form(s) of applicant's other application corresponds to the "Sequence Identifier(s)" of the application as follows:

Computer Readable Form
(other application)

"Sequence Identifier"
(this application)

(Submission—Nucleotide and/or Amino Acid Sequence [9-37]—page 2 of 6)

NOTE: "If the computer readable form of a new application is to be identical with the computer readable form of another application of the applicant on file in the Office, reference may be made to the other application and computer readable form in lieu of filing a duplicate computer readable form in the new application. The new application shall be accompanied by a letter making such reference to the other application and computer readable form, both of which shall be completely identified." 37 C.F.R. § 1.821(e).

E. ☒ A statement that the content of each "Sequence Listing" submitted and each computer readable copy are the same, as required in 37 C.F.R. § 1.821(g).

☒ Because the statement is not made by a person registered to practice before the Office, the statement is verified as required in 37 C.F.R. § 1.821(b).

F. ☒ Because this submission is made in fulfilling the requirement under 37 C.F.R. § 1.821(g), a statement that the submission includes no new matter.

☒ Because the statement is not made by a person registered to practice before the Office, the statement is verified, as required in 37 C.F.R. § 1.821(g).

**STATEMENT THAT "SEQUENCE LISTING"
AND COMPUTER READABLE COPY ARE THE SAME
AND/OR THAT PAPERS SUBMITTED INCLUDES NO NEW MATTER**

4. I hereby state:

(complete applicable item A and/or B)

- A. ☒ Each computer readable form submitted in this application, including those forms requested to be transferred from applicant's other application, is the same as the "Sequence Listing" to which it is indicated to relate.
- B. ☒ All papers accompanying this submission, or for which a request for transfer from applicants' other application, introduce no new matter.

STATUS

5. Applicant is

- ☒ a small entity. A statement:
- ☐ is attached.
- ☐ was already filed.
- ☐ other than a small entity.

(Submission—Nucleotide and/or Amino Acid Sequence [9-37]—page 3 of 6)

EXTENSION OF TERM

6.

NOTE: 37 C.F.R. § 1.704(b) ". . .an applicant shall be deemed to have failed to engage in reasonable efforts to conclude processing or examination of an application for the cumulative total of any periods of time in excess of three months that are taken to reply to any notice or action by the Office making any rejection, objection, argument, or other request, measuring such three-month period from the date the notice or action was mailed or given to the applicant, in which case the period of adjustment set forth in § 1.703 shall be reduced by the number of days, if any, beginning on the day after the date that is three months after the date of mailing or transmission of the Office communication notifying the applicant of the rejection, objection, argument, or other request and ending on the date the reply was filed. The period, or shortened statutory period, for reply that is set in the Office action or notice has no effect on the three-month period set forth in this paragraph."

NOTE: "Extension of Time in Patent Cases (Supplement Amendments)—If a timely and complete response has been filed after a Non-Final Office Action, an extension of time is not required to permit filing and/or entry of an additional amendment after expiration of the shortened statutory period.

If a timely response has been filed after a Final Office Action, an extension of time is required to permit filing and/or entry of a Notice of Appeal or filing and/or entry of an additional amendment after expiration of the shortened statutory period unless the timely-filed response placed the application in condition for allowance. Of course, if a Notice of Appeal has been filed within the shortened statutory period, the period has ceased to run." Notice of Dec. 10, 1985 (1061 O.G. 34-35).

NOTE: See 37 C.F.R. § 1.645 for extensions of time in interference proceedings and 37 C.F.R. § 1.550(c) for extensions of time in reexamination proceedings.

7. The proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136 apply.

(complete (a) or (b) as applicable)

(a) ☐ Applicant petitions for an extension of time under 37 C.F.R. § 1.136 (fees: 37 C.F.R. § 1.17(a)(1)-(4)) for the total number of months checked below:

Extension (months)	Fee for other than small entity	Fee for small entity
<input type="checkbox"/> one month	\$ 110.00	\$ 55.00
<input type="checkbox"/> two months	\$ 400.00	\$ 200.00
<input type="checkbox"/> three months	\$ 920.00	\$ 460.00
<input type="checkbox"/> four months	\$ 1,440.00	\$ 720.00

Fee: \$_____

If an additional extension of time is required, please consider this a petition therefor.

(check and complete the next item, if applicable)

☐ An extension for _____ months has already been secured. The fee paid therefor of \$_____ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$_____

OR

(b) ☐ Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

(Submission—Nucleotide and/or Amino Acid Sequence [9-37]—page 4 of 6)

FEE PAYMENT

8. ☐ Attached is a ☐ check ☐ money order in the amount of \$ _____
☐ Authorization is hereby made to charge the amount of \$ _____
☐ to Deposit Account No. _____
☐ to Credit card as shown on the attached credit card information authorization form PTO-2038.

WARNING: Credit card information should not be included on this form as it may become public.

- ☐ Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

A duplicate of this paper is attached.

FEE DEFICIENCY

9.

NOTE: If there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum, six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTO Finance Branch in order to apply these charges prior to action on the cases. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986, 1065 O.G. 31-33.

10. ☐ If any additional extension and/or fee is required, charge
☐ Deposit Account No. _____
☐ Credit card as shown on the attached credit card information authorization form PTO-2038.

WARNING: Credit card information should not be included on this form as it may become public.

SIGNATURE(s)

Richard J. Feldmann

(type or print name of person signing statement)

Richard J. Feldmann

Signature

March 18, 2004

Date

17800 Mill Creek Dr.

P.O. Address of Signatory

Derwood, Maryland 20855-1019

(if applicable)

Telephone No. ()

Reg. No.

Customer No.:

- ☒ Inventor(s)
☐ Assignee of complete interest
☐ Person authorized to sign on behalf of assignee
☐ Practitioner of record
☐ Filed under Rule 34(a)
☐ Registration No. _____
☐ Other _____

(specify identity of declarant)

(type name of assignee)

Address of assignee

Title of person authorized to sign on behalf of
assignee

A "STATEMENT UNDER 37 C.F.R. § 3.73(b)" is attached.

Assignment recorded in PTO on _____

Reel _____ Frame _____

March 18, 2004
Reg. No.: 18,957

Tel. No.: (703) 684-8333

Customer No.:

Jim Zegeer
SIGNATURE OF PRACTITIONER

Jim Zegeer
(type or print name of practitioner)

801 North Pitt St. - #108
P.O. Address
Alexandria, VA 22314

(Submission—Nucleotide and/or Amino Acid Sequence [9-37]—page 6 of 6)